INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001677

A.	CLASSIFICATION OF SUBJECT MATTER						
Int. Cl. 7:	F15B 15/26, 13/01						
According to	International Patent Classification (IPC) or to both na	ational classification and IPC					
B.	FIELDS SEARCHED						
See below u	mentation searched (classification system followed by clas nder "Electronic databases searched"						
USPTO	searched other than minimum documentation to the extended		ed				
Electronic data DWPI: IPC	base consulted during the international search (name of da: F15B 15/26, 15/00, 13/01, 13/00 with keyword	ta base and, where practicable, search terms used) ds ball?, lock+, inner+ and similar terms					
C	DOCUMENTS CONSIDERED TO BE RELEVANT						
Category*	Citation of document, with indication, where appro	priate, of the relevant passages	Relevant to claim No.				
х	US 4951552A (FOX) 28 August 1990 The whole document	1-16					
X	US 2713328A (DRISKEL et al.) 19 July 1955 Column 3, line 57-column 4, line 4 and figure	1-16					
P, X	EP 1473466A1 (LOGITRANS A/S) 3 Novement The whole document	1-16					
x	US 6186047B1 (BARUFFALDI) 13 February The whole document	1-3, 6-8, 13-16					
X F	Further documents are listed in the continuation	of Box C X See patent family annu	ex				
* Special categories of cited documents: "A" document defining the general state of the art which is not considered to be of particular relevance "Butter document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention							
	"E" earlier application or patent but published on or after the "X" document of particular relevance; the claimed invention cannot be considered nove international filing date or cannot be considered to involve an inventive step when the document is taken						
alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition alone document of particular relevance; the claimed invention cannot be considered involve an inventive step when the document is combined with one or more of such documents, such combination being obvious to a person skilled in the analysis. "And the same fatent family							
or other	means int published prior to the international filing date	cument member of the same patent family					
	r than the priority date claimed ual completion of the international search 2005	Date of mailing of the international search report 2 0 JAN 2005					
1	ling address of the ISA/AU	Authorized officer					
PO BOX 200, E-mail address	N PATENT OFFICE WODEN ACT 2606, AUSTRALIA :: pct@ipaustralia.gov.au (02) 6285 3929	ASANKA PERERA Telephone No: (02) 6283 2373					

INTERNATIONAL SEARCH REPORT

International application No.
PCT/AU2004/001677

(Continuati	on). DOCUMENTS CONSIDERED TO BE RELEVANT				
Category*	Citation of document, with indication, where appropriate, of the relevant passages				
	US 4635536A (LIU et al.) 13 January 1987				
Α	The whole document	1-16			
	EP 0170873B1 (KNORR-BREMSE AG) 16 September 1987				
Α	The whole document				
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001677

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report				Pate	ent Family Member		
US	4951552						
US	2713328						
EP	1473466						·
US	6186047	AU	17688/97	EP	0879362	. IT	TO960100
		wo	9730291				
US	4635536						
EP	0170873	DE	3428228			··········	

Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.

END OF ANNEX